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DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE

W. J. Trott

Office of Naval Research  
London, England

March 1968

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**DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE**

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**W. J. TROTT**

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**MARCH 1968**

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PRINTING OFFICE  
WASHINGTON, D.C. 20540  
Information Springfield Va 22151

DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE

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#### INTRODUCTION

This Directory is a revision of Directory ONRL-D-10 published by Donald Ross in November, 1965. Corrections and additions to make the Directory current have been obtained through visits in Europe and attendance at meetings of the British Acoustical Society. Two new sources of information on British scientists will be available when this Directory comes out. They are

#### Scientific Research in British Universities and Colleges, 1966-67

Volume 1: Physical Sciences            40 shillings

available from British Information Service

845 Third Avenue  
New York, New York, 10022  
and

Industrial Research in Britain 6th edition, 1967.

Advisory Editor: I.D.L. Ball

Harrap Research Publications  
182 High Holborn  
London, W.C.1.

Errors, omissions, and changes are inevitable in a directory of this scope and are self-perpetuating unless rectified. Therefore, American scientists can provide a useful service by calling to our attention any such defects. Comments should be sent to the Scientific Director, Office of Naval Research Branch Office, Box 39, FPO New York, N.Y. 09510. (An ordinary postcard will suffice.)

AUSTRIAINNSBRUCK

Physikalisches Institut  
Universität Innsbruck  
Schöpfstrasse 41

Tel: 26741

Dr. Josef Kolb  
Dr. Josef Gode

Applications of ultrasound to industry  
Acoustic zone plates

VIENNA

Staatl. Phys-Technischen Versuchsanstalt  
für Wärme- und Schalltechnik am  
Technologischen Gewerbemuseum  
Währingerstrasse 59  
Vienna 9

Friedrich Bruckmayer  
Judith Land

Architectural acoustics and noise control  
Traffic noise problems

Institut für Niederfrequenztechnik  
Technischen Hochschule Wien  
Gusshausstrasse 25  
Vienna 4

E. Hirschwehr

Architectural acoustics

"  
IBM Österreich Forschungsgr.  
Parkring 10  
Vienna 1

Ernst H. Rothauser  
Marian Fleck  
Erwin Paulus  
Kurt Bandat  
G. Urbanek

Speech synthesis  
"  
"  
"  
Noise control

BELGIUMBRUSSELS

Service Physique Appliquée 1  
Ecole Polytechnique  
Université Libre de Bruxelles  
50, Avenue F-D. Roosevelt

Tel: 49-00-30, ext. 2802

Dr. T.G. Korn  
Jacques Hougardy  
Jean Bosquet

Magnetic recording, psychological acoustics  
" " " "  
Room acoustics

Institut des Constructions Civiles  
Université Libre de Bruxelles  
50, Avenue F-D. Roosevelt

Tel: 49-00-30, ext. 2756

Dr. André Homès

Elastic stresses, approach of fatigue on  
ultrasonic propagation

Laboratoire de Psychologie  
Université Libre de Bruxelles  
115 Ave. Adolphe Buyl  
Brussels 5

Tel: 48-65-10, ext. 2631

Dr. Eliane Noirot

Ultrasonic cries of baby mice

Centre Scientifique et Technique  
de la Construction  
5, rue de la Violette  
Brussels 1

M. Iagros, Director  
Prof. A. Raes, Acoustics Consultant

Building acoustics

Ingenieur Civil au Fonds d'Etudes  
et de Recherches relative au  
Problème de la Sécurité Routière  
101 Rue Royale  
Brussels 1

Victor de Coster

Airport and aircraft noise problems

Institut National du Logement  
86, rue Saint Lazare  
Brussels

Léon Montfort

Architectural acoustics

Institut de Mécanique Appliquée  
Institut d'Aéronautique de l'Université  
Brussels

André L. Jaumotte

Acoustic detection of boiling

Union Européenne de Radiodiffusion (UER)  
32 Avenue Albert-Lancaster  
Brussels 18

Henri Mertens

Stereophony, radiation theory

513 Avenue Brugman  
Brussels 18

Tel: 44-33-79

Prof. Auguste C. Raes

Architectural acoustics

BELGIUM (Cont'd)LIÈGE

Laboratoire d'Electroacoustique  
Institut Montefiore  
Université de Liège  
33 rue Saint Gilles

Tel: 32-31-67

Prof. Joachim Frenkiel, Director  
Jacques Dendal, Asst.

Daniel T.E. Comwin  
Claude Lhermursux  
Félix Spronck

Marcel Libert

Electroacoustics  
Electro and architectural acoustics,  
noise control  
Artificial ear  
Techniques of absorption measurements  
Transmission of acoustic filters, measurements  
Electroacoustic measurements

LOUVAIN

Instituut voor Lage Temperaturen en Technische Fysica  
Université de Louvain  
Naamestraat, 61

Tel: (016) 228-76

Prof.Dr. A. Van Itterbeek, Director

Dr. Henri Myncke  
Dr. Hans Zink  
Dr. W. Van Dael  
Olav Verbeke  
Dr. Tapankumar K. Bose  
Willy Grevendonk  
André Cops

Low-temperature physics, relaxation phenomena  
at low temperatures  
Building and ship acoustics  
Propagation in gases and liquids  
Sound propagation in ionized gases  
Semiconductors at low temperatures  
Relaxation times in gases  
Relaxation times in liquids



DENMARKCOPENHAGEN

Department of Applied Mechanics  
 Royal Technical University of Denmark  
 Rensgade 13  
 Copenhagen, K

Prof. Eyvind Fredericksen

Diesel engine silencing

Otological Department  
 Rigshospitalet

Dr. Knud Terkildsen

Hearing, audiology

Danish Defense Research Board  
 Østerbrogade Kaserne  
 Copenhagen Ø

Tel: TRIA 5707

Electronic Communication Division  
 Mr. Sven Falck Larsen  
 O.V. Olesen  
 A.M. Tenkelsen  
 I. Gilberg

Underwater sound, sonar  
 Propagation and noise calibration  
 " " " "  
 " " " "

Telefon Fabrik Automatic A/S  
 Amaliegade 7

J. Steen Petersen  
 Kaj Albrechtsen

Telephone acoustics, artificial mouth

Telecommunications Research Laboratory  
 Borupsallé 43  
 Copenhagen N

Dr. Asger Kjerbye Nielsen

Telephone acoustics

LYNGBY

Laboratoriet for Akustik  
 Danmarks Tekniske Højskole  
 Lundtoftevej 100  
 Kgs. Lyngby

Tel: (01)- 88 16 22

Prof. Dr. Fritz Ingerselv, Director

Electroacoustics, building acoustics,  
 organ pipes  
 Electroacoustics, loudspeaker systems  
 Non-linear distortion studies  
 Absolute calibration of microphones  
 Building acoustics

O. Juhl Pedersen, Asst.  
 S. Boel Pedersen  
 Knud Rasmussen  
 Jørgen Kristensen

Laboratoriet for Teknisk Fysik  
 Danmarks Tekniske Højskole  
 Lundtoftevej 100

Prof. R.E.H. Rasmussen, Director  
 S.J. Gjendal

Ultrasonics

Statens Byggeforskningsinstitut (Danish National Institute of Building Research)  
 Lundtoftevej 7  
 Kgs. Lyngby

F. Michael Strumpf

Plumbing noise

DENMARK (Cont'd)NAERUM

## Brueel and Kjaer A/S

Dr. Per Br  el  
Dr. Viggo Kjaer  
Jens Trampe Broch  
Holger Larsen  
P. E. M  ller Petersen  
Gunnar Rasmussen

C.G. Wahrman  
Karl E. Kittelsen  
P. Wilhjelm  
Frede Sk  de  
J  rgen Berg

## Acoustics measurements

Random vibration  
Analyzers  
Random vibration  
Artificial ear, miniature microphones,  
accelerometers  
Filters and analyzers  
Random vibration and microphones  
Artificial mouth  
Wind screens, miniature anechoic chamber

FINLANDHELSINKI

Tekniska Högskolan  
Abrahaminkatu 1-5

Tel: 30-771

Department of Electrical Engineering

G. von Salis

Electroacoustics

Acoustical Laboratory

Eero Lampio

Electroacoustics

Byggnadstekniska Laboratoriet  
Lönrotinkatu 37

Tel: 11-151

Heimo Ratu, Director

Building acoustics, noise control

Finnish Broadcasting Co.  
Pohj. Makasiinik 6

Paavo Arni  
Tor F. Ahlstedt  
Juhani Borenus

Studio and broadcast acoustics

FRANCEARCUEIL

Compagnie Alcatel  
1 rue Aristide Briand  
Arcueil (Seine)

M. Robin, Head of Naval Applications

Active and passive sonar and positive ranging

BELLEVUE

Centre Nationale de la Recherche Scientifique  
Bellevue (S-et-O)

Marc Bruma  
Claude Magnie

Generation of ultrasound with lasers  
Propagation of ultrasound in liquids under pressure

Mohamed Ezz-El-Arab

CAGNES-SUR-MER

Compagnie Générale de Télégraphie sans Fil  
Chemin des Travaux

Brice Derouet  
Pierre Tournois

Underwater sound re torpedoes  
" " " "

CHATILLON-SOUS-BAGNEUX

Office National d'Etudes et de Recherches Aérospatiales (ONERA)  
29-39 Avenue de la Division Leclerc  
Chatillon-sous-Bagneux (Seine)

Tel: Alesia 50-80

Dr. Pierre Liénard, Chief of Acoustics Division  
Michel Kobrynaki  
Jaques Hay  
M. Benard  
J. Lambourion  
Maurice Planshis  
Jean-Pierre Guiraud

Measurement of high intensity noise  
Jet and rocket noise  
Microphones for high level noise  
Calibration at high intensities  
Noise measurements at high temperatures  
Sonic boom, aerodynamics

CHATOU

Electricité de France  
Centre de Recherches et d'Essais de Chatou  
6, Quai Watier  
Chatou (S-et-O)

Tel: 966-35-20

M. Hug. Asst. Director  
M. Chevalier

Cavitation and noise of turbines  
Tests of turbines and pumps, including cavitation  
Cavitation and noise  
Hydraulic cavitation  
Cavitation in turbomachinery

M.J. Rata  
M.J. Beaufrère  
M. Pierre Cormault

FRANCE (Cont'd)CLAMART

Electricité de France  
Laboratoire d'Acoustique  
17 Avenue de la Libération  
Clamart (Seine)

M. Jean Mattsi, Chief of Laboratory

André Jaudet  
Lucien Autesserre  
Paul François  
André Coquard  
Jacques Delcambre

Noise of electrical machinery and noise control  
Measurement of short reverberation times  
Industrial noises  
Industrial noises  
Transformer noise calculations  
Traffic and tunnel noises

ISSY-LES-MOULINEAUX

Centre National d'Etudes des Télécommunications (CNET)  
3 Avenue de la République  
Issy-les-Moulineaux (Seine)

Tel: MIC 0469

Dr. Leonid Pimonow

Speech analysis and synthesis

JOUY-EN-JOSAS

Laboratoire de Physiologie Acoustique  
Institut National de la Recherche Agronomique (INRA-CNRZ)  
Domaine de Vilvert  
78 Jouy-en-Josas (S-et-O)

Tel: 923-63-13

also

Laboratoire d'Acoustique Animale  
Ecole Pratique des Hautes Etudes

Prof. René-Guy Busnel, Director  
Madame M.-C. Busnel  
Dr. (Mme.) A. Lehmann  
B. Dumortier  
Jean-Claude Brémond  
Mlle. Yveline Leroy  
A.-J. Andrieu  
Albin Dziedzic

Dr. (Mlle.) Gramet  
Mlle. J. Giben

Animal sounds and physiology  
Insect sounds and birds  
Physiology, mice in high intensity sound  
Insect sounds  
Bird sounds (robins)  
Insect sounds  
Instrumentation and measurement  
Underwater biological noises and porpoise sonar  
Bird sounds  
Bird sounds

LA GAUDE

Centre Etudes et Recherches IBM France  
La Gaude (Alpes-Maritimes)

Pierre Peckels  
Vladimir Rizo  
René Buron

Speech  
"  
"

LANNION

Centre National d'Etude des Télécommunications (CNET)  
Lannion (Côtes du Nord)

Jean-Baptiste Jacob  
Gilbert Ferrieu

Telephone acoustics

FRANCE (Cont'd)LE BRUSC

Laboratoire de Detection Sous-Marin  
Le Brusca (Var)

Tel: 94 95 60

Dr. Pierre Foache, Director

Underwater sound, sonar, ocean sound  
propagation

Dr. Otto Brandt

Transducers

Dr. Henri Mermoz

Physicist, signal processing, sonar systems

Ing. (Mlle) Ursula Meindl

Ship and submarine noise ranging

Ing. Grinda

Sonar self noise

Ing. Grandvaux

Propagation of sound

ICGM Roux

Surface ship sonars

IPGM J.-C. Benoist

Submarine sonars

ICGM Courret

Variable-depth sonars

J.L. Nicolas

Engineer

MARSEILLES

Centre de Recherches Physique de CNRS  
31, Chemin Joseph Aiguier  
Marseille 9<sup>e</sup>

Tel: 76 12 20

Dr. Théodore Vogel, Director

Applied mathematics, vibrations, acoustics

Prof. L. Sideriadès

Non-linear mechanics

Dr. Y. Jullien

Plate and shell vibrations

Dr. William Bismuth

High polymers, dynamic elastic construction

Dr. Claude Gzanhou

Ultrasonics

Prof. François Canac

Flow visualization, aerosonics,

architectural acoustics

Dr. (Mlle) Marie Merle

Flow visualization, aerosonics

Mlle. Hélène Gavini

Psychoacoustics, pulse perception

Dr. Marc Foti

Noise reduction, airport noise, room

acoustics, shock waves

Dr. Vladimir Gavreau

Hypersonics, infrasonics, automatic control,

servo-systems

R. Blanc

Propagation in high polymers

Benjamin Bladier

Room acoustics transient sounds

J.L. Garnier

Ultrasonics measurements

R.M. Rosenberg

Non-linear vibration theory

Mlle. Delphine Bonseignour

Propagation in high polymers

Guy Duméry

Maurice Jessel

MASSY

Laboratoire de Biochimie et Physico-Chimie  
des Céréales (CERDIA)  
Institut National de la Recherche Agronomique (INRA)  
Le Noyer Lambert  
Massy (S-et-O)

Dr. Maurice Degrois

Acoustic cavitation and its effects

Berdj Badilian

" " " " "

(For 10 years prior to June 1965, both men were located in Dr. Busnel's Laboratory in  
Jouy-en-Josas).

FRANCE (Cont'd)MEAUX

Realisations Ultrasoniques  
9, Chaussée de Paris  
Meaux (S-et O)

Richard Marvois

MEUDON

Service des Études  
Office de Radiodiffusion Télévision Française (ORTF)  
1 rue Marcel Allégot  
Meudon (S-et-O)

Tel: OBS 39-38

Jean Pujolle, Assistant Director of Laboratory  
Roland Condaminas, Acoustics Department

Formerly electroacoustics  
Studio acoustics, stereophony, directional effects

André Keller

Guy Reibel

Jean Guillermin, Special Studies Group

M. Meunier, Electroacoustics Department

M. Bucchini

Henri Chiarucci

Broadcast acoustics, stereophony, studios

Loudspeakers

Loudspeakers and microphone tests

Musical acoustics

NANCY

Ecole Nationale Supérieure d'Électricité et de Mécanique  
Université de Nancy  
2 rue de la Citadelle

Tel: 52 68 32

Prof. R. Guillien, Director

Dr. (Mlle) Gaulard

Ultrasonic scattering in inhomogeneous media

ORLY-AÉROGARE

Laboratoire de l'Aéroport de Paris  
B.P. No. 103  
Orly-Aérogare (Seine)

Tel: JUS 51-41, ext. 21-02 and 23-02

M. Roger Lorin, Director

M. Gerrard Centau

M. Tissier

Airport noise, all aspects of airport engineering

Aircraft flyover noise monitoring

" " " "

PARIS

Laboratoire de Recherches Physiques  
Faculté des Sciences  
Université de Paris (Sorbonne)  
1 rue Victor Cousin  
Paris V<sup>e</sup>

Prof. René Lucas, Director

André Zarembovitch

Acoustic-optical phenomena in solids

Acoustic-optical effects in single crystals

PARIS (Cont'd)

Collège de France  
11 Place Marcellin Berthelot  
Paris V<sup>e</sup>

Dr. René Chocholle  
Mlle. Christiane Saulnier  
Prof. Lecorre

Laboratoire de Physiologie du Travail  
Collège de France  
41 rue Gay-Lussac  
Paris V<sup>e</sup>

Dr. A. Wisner

L'École Supérieure de Physique et de  
Chimie Industrielles  
10 rue Vauquelin  
Paris V<sup>e</sup>

Laboratoire de Physique

Prof. René Lucas, Director  
Dr. Madame Suzanne Pauthier-Camier  
Dr. Jacques Badoz

Laboratoire de l'Electricité Général

Prof. P. Biguard

Laboratoire de Physique  
L'École Normale Supérieure du Université de Paris  
24 rue Lhomond  
Paris V<sup>e</sup>

Prof. Y. Rocard, Director  
J. Martinais  
P. Mechler

Laboratoire d'Acoustique  
Faculté des Sciences de Paris (Sorbonne)  
8 rue Cuvier  
Paris V<sup>e</sup>

Emile Leipp  
J.S. Lienard  
Miss Michèle Castellengo

FRANCE (Cont'd)

Tel: ODEon 83-94

Hearing audiology, masking effects  
Hearing physiology of animals  
Ultrasonics at extremely high frequencies  
(10,000 Mcps)

Tel: ODEon 18-27

Effects of noise and vibration on human  
behavior

Tel: GOB 80-64

Physical acoustics  
Elastic constants of solids under load  
Birefringence in liquid ultrasonic  
propagation

Magnetoacoustics, propagation in metals at  
low temperatures in magnetic fields

Tel: POR 41-69

Atmospheric and underwater sound propagation  
Underwater seismology

Architectural and musical acoustics  
" " " "  
" " " "



PARIS (Cont'd)FRANCE (Cont'd)

Faculté de Médecine de l'Université de Paris  
45 rue des Saints Pères  
Paris VI<sup>e</sup>

Tel: BAB 00-71

Prof. André Dognon  
Mlle. Yvonne Simonot  
Dr. Michel Burgeat

(Also at Hospital Lariboisiere, rue Ambroise Paré, Paris XVIII<sup>e</sup>)  
F. Greyas

Bioacoustics, ultrasonic cavitation

Electrophysiology of hearing

Physiology of hearing

Meteorologie Nationale  
1 Quai Branly  
Paris VII<sup>e</sup>

M. Facy

Long-range sound propagation from explosions

Directeur des Essais du Matériel de la  
Société Nationale des Chemins de Fer (SNCF)  
20 Boulevard Diderot  
Paris XIII<sup>e</sup>

Tel: DOR 98-60

Jean R. Colombaud

Railroad noise problems, diesel noise

Ligue Française Contre le Bruit  
8-10 rue Delbet  
Paris XIV<sup>e</sup>

Tel: BLO 40-00

Maitre Louis Bouvier, Secrétaire General

Institut Pasteur  
28 rue Docteur Roux  
Paris XV<sup>e</sup>

Tel: SEG 01-10

Dr. R.O. Prudhomme

Ultrasonic cavitation

Service Technique de la Navigation Aérienne  
155 rue de la Croix-Nivert  
Paris XV<sup>e</sup>

Vital E. Ferry  
M. Sapin

Aircraft noise  
" "

Bassin d'Essais des Carènes  
6 Boulevard Victor  
Paris XV<sup>e</sup>

Tel: VAU 63 53, 55, 57  
LEC 42-00

VADM Roger Emile Brard, Director of model basin  
S. Bindel  
Jean-François Roy

Propeller cavitation and noise  
Turbulent boundary layer (flow noise,  
almi-flow)

**FRANCE (Cont'd)**

Tel: LEC 42-00

Sonar  
Submarine and ship sonar  
Torpedoes - St. Tropez  
Low-frequency detection  
Propulsion machinery  
Auxiliary machinery, noise reduction  
Noise reduction of auxiliary machinery

Tel: LEC 29-89

## Electroacoustics

## Architectural acoustics

**Tel: BAG 22-22**

## Architectural acoustics

**Tel: AUT 81-80**

TL of walls, coupling to rooms  
 " " " " " " , traffic noises  
 Architectural acoustics (from CNET)

Centre National d'Etudes des Télécommunications (CNET)  
Batterie de la Pointe  
Pointe-a-Palisseau (S-et-O)\*

Telephone acoustics, hearing, artificial mouth and ear .

Telephone acoustics, intelligibility of language

\* Laboratory moving to Lannion in Brittany in 1966.

FRANCE (Cont'd)RANTIGNY

Laboratoire d'Acoustique, Centre Recherches Industrielles  
Compagnie de Saint-Gobain à Rantigny  
rue Emile Zola  
Rantigny (Oise)

D. Fournier  
M. Val  
Gilda Saporta  
P. Fanic  
Henri Bailly  
P. Chauveau-Dumatray

Room acoustics

" "

STRASBOURG

Centre de Recherches sur les Macromolecules  
Université de Strasbourg  
6 rue Boussingault

Tel: 35 40 94

Prof. Roger Cerf,\* Director  
Sauveur Candau  
Raoul Zana\*  
Pierre Lemaréchal

Ultrasonics propagation in gases

\*In USA during 1965

TOULOUSE

Laboratoire d'Electroacoustique  
2 rue Camichel  
31 Toulouse

P. Jossierand

GERMANYAACHEN

Institut für Elektrische Nachrichtentechnik  
der Technischen Hochschule Aachen  
Alte Maastrichter Strasse 23  
51 Aachen

Tel: 422 24 30

Prof.Dr.-Ing. Volker Aschoff, Director  
(also Chancellor of the College)  
Dr. Ing. Peter Riedel  
Dipl. Ing. Jens Elauert

Speech and hearing

Relation of loudness to pitch  
Stereophonic systems

Institut für Theoretische Physik  
Technische Hochschule  
Templergraben 55  
51 Aachen

Tel: 4221, ext. 2135

Prof.Dr. Josef Meixner

Molecular relaxation phenomena

Institut für Allgemeine Metallkunde und  
Metallphysik  
Technische Hochschule Aachen  
Templergraben 55  
51 Aachen

Tel: 422 25 85

Prof.Dr. Kurt Lücke, Director  
Dr. Stüwe, Asst. Director (not acoustics)  
Dr. F.A. Hultgren  
Dipl. Phys. Dieter Lenz  
Dr. G. Roth  
Dipl. Phys. G. Sokolowski  
Dr. Joseph Schlupf  
Dipl. Phys. F.W. Heuser

Damping in metals  
Damping in metals  
Propagation in copper  
Megacycle propagation in lead  
Amplitude dependence of internal friction  
Low frequency effects on irradiated copper

Dislocation line theory

Institut für Technische Akustik  
der Technischen Hochschule Aachen  
Templergraben 55  
51 Aachen

Tel: 422 24 46

Prof.Dr.-Ing. Wilhelm H. Janovsky, Director  
Dipl. Ing. P. Scherer, Asst.  
Dipl. Ing. Eckart Jaeger  
Dipl. Ing. D. Kutzer

Noise control, machinery noise, electro-  
acoustics, hearing, drums  
Factory machinery noise

Laboratorium für Ultraschall  
Technische Hochschule Aachen  
Templergraben 55  
51 Aachen

Tel: 422 24 37

Prof.Dr. Reimar Pohlman, Director  
Dipl. Ing. E. Schützler  
Dipl. Ing. E. Lehfeldt  
Dipl. Phys. Ernst Günter Lierke

Image converter  
Ultrasonics in wire drawing  
Degassing of liquids by ultrasonics,  
cavitation inception  
Wave analog computer (Schlieren)  
Wave analog computer  
Ultrasonic metal spray  
Ultrasonics documents center,  
" applications  
Mechanical pulse source

Dipl. Ing. Dieter Dauvidts  
Dipl. Ing. P. Höller  
Dipl. Ing. Gerhard Griesshammer  
Dipl. Phys. Joachim Herbertz

Dipl. Phys. M. Cichos

AACHEN (Cont'd)GERMANY (Cont'd)

Fakultät für Maschinenwesen  
der Technischen Hochschule Aachen  
Templergraben 55  
51 Aachen

Prof.Dr.-Ing. H. Opitz, Director  
Dr.-Ing. Jobst Herrmann

Philips Zentrallaboratorium GmbH  
Weisshaussstrasse  
51 Aachen

Dr. E. Kauer, Director  
Dr. A. Rabenau, Asst. Director  
Dr. Gottfried Arlt  
Georg R. Schodder  
Arno Wiericks  
Heinz Schweppe  
Gerhard Simon  
Dr. Reiber  
H.O. Westermann  
Dr. Hermann  
Dr. L. Merten

Gears, including gear noise  
" " " "

Chemist  
Physical acoustics (semiconductors)  
Acoustic amplifier (White)

Tellurium piezoelectric constants

Shear waves in evaporated metal layers

BERLIN

Institut für Technische Akustik  
(Also includes Acoustics Division of  
Heinrich Hertz Institut für Schwingungsforschung)  
Technischen Universität  
Jebensstrasse 1 (Moving in 1966 to new building  
on Einsteinstrasse)

Tel: (0311) 32 51 81, ext. 932

Prof.Dr. Lothar Cremer, Director  
Dipl.Phys. Matthias Hubert, Assistant  
Dipl.Ing. Joachim Nutsch  
Dipl.Ing. Peter Rother  
Dipl.Ing. Jürgen Gruber  
Dipl.Ing. Ulrich Kurze  
Dipl.Ing. Georg Boerger (H.Hertz Inst.)  
Dipl.Ing. Hans Lazarus (H.Hertz Inst.)  
Dipl.Ing. A. von Meier (H.Hertz Inst.)  
Dipl.Ing. Ralf Kürer (H.Hertz Inst.)  
Dipl.Ing. Georg Plenge (H.Hertz Inst.)  
Hartmut Ising  
Dr. Ernest Lübecke (Guest Prof.)

Dr. Hanno Heller  
Dipl.Ing. Gerhard Mittag  
Dipl.Ing. Heinz Gummlich  
Prof. W. Schaafs (Guest Prof.)  
Dr. (Mrs.) Ruth Nutsch  
Dr. M.V. Kaulgud

Structureborne sound, architectural acoustics  
Noise control, mufflers, aerosonics  
Architectural acoustics  
Room acoustics, architectural acoustics  
Psychoacoustics - interaural effects  
Propagation in ducts and mufflers  
Psychoacoustics, directional effects  
Musical acoustics of string instruments  
Sound insulation of walls  
Room acoustics

Musical acoustics  
Machinery noise, noise control, subjective  
reactions  
Aerodynamic noise  
Subjective loudness of machinery  
Acoustic resistance of rough walls  
Ultrasonic propagation in liquids  
" " " "

Lehrgebiet für Kommunikations Technische Wissenschaft  
Technischen Universität  
Hardenberg Strasse 34  
1 Berlin 12

Tel: 32 51 81

Prof. Fritz Winkel  
Dipl.Ing. Manfred Krause

Technical aspects of music, speech and  
communication, phonetics, studio acoustics  
Speech synthesis and analysis

BERLIN (Cont'd)

Institut für Verbrennungskraftmaschinen  
Technische Universität Berlin  
Hardenbergstrasse 34  
1 Berlin 12

Prof. Walter Pflaum, Director

Dr. W. Hempel

Institut für Stromungstechnik (DVL)  
Technische Universität Berlin  
Hardenbergstrasse 34  
(Physically located at Gartenufer 8 - on the canal)  
1 Berlin 12

Prof. Rudolf Wille, Director  
Dr. C.W. Schreck, Univ. Asst.  
Dr. H. Schade  
Dr. A. Michalke  
Dr. Adalbert Timme, DVL Asst.  
Dipl.Ing. Eberhard Berger  
Dipl.Ing. D. Bechert  
Dipl.Ing. P. Freymuth  
Dipl.Ing. D. Schmidt

Otologisches Institut  
Freie Universität Berlin  
Spandauer Damm Strasse  
Berlin 19

Dr. Rudi Fischer

Laboratorium für Elektroakustik GmbH  
Segitzdamm 2  
Berlin 61

Ernst-Georg Neumann

Material Prüfungsanstalt  
Unter den Eichen 87  
1 Berlin 45

Dr. Paul Schneider  
Werner Rückward

Siemens-Schuckert-Werke AG  
Nonnendammallee 101  
1 Berlin 19

Gerhard Hubner  
Hans Hoffman

BOEBLINGEN

Hewlett-Packard GmbH  
Postbox 250  
703 Boeblingen

H. Blasser

GERMANY (Cont'd)

Tel: 32 51 81, ext. 353

All aspects of combustion engines, including  
noise and vibration  
Noise and vibration of diesels

Tel: 32 51 81, ext. 693

Vortex shedding, transition, shear flows  
Turbomachinery  
Stability of shear flows theory  
Stability theory of shear layers  
Karman vortex, shear flows  
Vortex shedding at low Reynolds numbers  
Organ pipes and edge tones  
Interaction of sound and turbulence  
Sound and turbulence re aircraft

Tel: 32 51 81

Psychoacoustics, hearing

Electroacoustics

Tel: 76 52 31

Building acoustics

Machinery and aerodynamic noise, radiation

" " " " "

Loudness analyzer

GERMANY (Cont'd)BONN

German Ministry of Defense, Section TV6

Dr. Schüler  
Dipl.Phys. R.R. HauserUnderwater sound  
" "

Universität Bonn

Prof.Dr. H. Wendt

Relaxation effects in liquids

Institut für Phonetik und Kommunikationsforschung  
Universität Bonn  
Koblenzer-Strasse 98a

Tel: 3 19 41

Prof.Dr. Leo Weisgerber  
Dr. Hans G. Tillmann  
G. Heike  
H. Schnelle  
Gerald Ungeheuer  
Robert Rupprath  
L. Friedrich  
Winifried Mainka  
Bente Halmer

Speech analysis, recognition and synthesis

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BRAUNSCHWEIGDeutsche Forschungsanstalt für Luft und  
Raumfahrt E.V., DFL  
Flughafen  
33 Braunschweig

Tel: 71031

Dr.Ing. Otto Lutz, Director

Jet noise, cross correlation in signal detec-  
tionAbteilung V  
Physikalisch-Technische Bundesanstalt (PTB)  
Bundesallee 100  
33 Braunschweig

Tel: 5921/2, ext. 2280

Dr. Horst Gunther Diestel, Director  
of Section V (Acoustics Division)Dr. Gerhard W. Becker  
Dr. Peter DämmigDr. Rudolf Martin  
Dr. Kallenbach  
Dr. Jan Koppelman  
Dr. Lottermoser  
Dr. H. Mass  
Dr. H.J. Rademacher  
Dr. G. Venzke  
Dr. Jürgen Meyer  
H. BrockschCalibration of electroacoustic devices and  
artificial earsHigh polymers at finite amplitudes  
Building acoustics, impact tests, acoustic  
instrumentsNoise measurements of autos, planes, ships, etc.  
Sound analysis and recording

Ultrasonics in solids

Musical acoustics

Calibration of electroacoustic devices

High polymers non-linear effects

Architectural acoustics

Musical acoustics

Properties of artificial ears and electro-  
acoustic calibration

Ultrasonics in solids

Ultrasonic propagation in metals

Ultrasonic propagation in metals

" " " "

Ultrasonic cleaners

Speech visualizer

Riesckman  
Dr. Rainer Frielinghaus  
Dr. G. Ludwig  
Klaus Brinkmann  
M.C. Mühle  
Dr. C. Uhlenhut  
Prof. Dr. Phil. Martin Grützmacher  
(retired as Director, now on contract)

BRAUNSCHWEIG (Cont'd)GERMANY (Cont'd)

Institut für Materialsprüfung und Baustoffkunde  
Technische Hochschule  
Beethoven Strasse, 52  
33 Braunschweig

Prof. Dr. Kordina, Director  
Dipl. Phys. Herbert Schultze  
Dipl. Ing. Joachim Steinert

Building acoustics  
Vibrations and acoustics

BREMEN

Atlas Werke AG  
Sebaldsbrücker-Heerstrasse 235  
Bremen 2

F. Hovey  
H. Mass  
D. Reichow  
Herbert Gritsch  
Hans Schlemm  
Rudolf Thiele

Sonar, transducers

COLOGNE

Drs. J. u. H. Krautkrämer  
Gesellschaft für Elektrophysik  
Luxemburger Strasse 449  
Köln-Klettenberg

Tel: 41 49 41

Dr. Josef Krautkrämer  
Dr. H. Krautkrämer  
Dr. L. Niklas, Tech. Director

Flaw detection equipment

Plate waves

DARMSTADT

Fernmeldetechnisches Zentralamt der  
Deutsches Bundespost  
Rheinstrasse 110

Tel: 8041

Dr. F. A. Fischer, Head of Communications  
Research  
W. Endres

Electroacoustics  
Speech communication

DORTMUND

Max Planck Institut für Arbeitsphysiologie  
Rheinlanddamm 201  
46 Dortmund

Tel: 2 52 55

Prof. Dr. Gunther Lehmann  
D. Dieckmann  
Dr. Wolfgang Hawel  
H. Damsky  
G. Jansen  
Wolfram Knöpke

Noise abatement  
Effects of ultrasound on man  
Annoyance of noise  
Effects of sound on human eyes  
" " " " " "  
" " " " " "

Staatliches Materialprüfungsamt  
Exzellenzstrasse 45  
Dortmund Aplerbeck

Dr. A. Eisenberg

Building acoustics, standards



GERMANY (Cont'd)DÜSSELDORF

Forschungslaboratorium für Medicine Akustik  
Oertelstrasse 2  
Düsseldorf

Edmund Buchta  
Christine Buchta

Universität Düsseldorf  
Strumpellstrasse 4  
(4) Düsseldorf

Prof. Dr. Ing. F.J. Meister

Effects of noise exposure

ERLANGEN (near Nürnberg)

Institut für Physikalische Chemie  
Universität der Erlangen  
Schuhstrasse 19

Tel: 87 71 (652)

Prof. Dr. Erich Lange, Director  
Dr. Heinz Hoffman

Relaxation phenomena in electrolytes

Siemens-Reiniger Werke AG  
Gebbertstrasse 125

J. Patzold  
Clemens Stärke

Ultrasonic instruments for medical applications

ESSEN

Institut für Schall und Wärmeschutz  
Krekelerweg 48  
Essen - Steele

Prof. Dr. Werne Zeller  
Levente Zorkoczy

Building acoustics, noise control  
" " " "

FRANKFURT/MAIN

Battelle-Institut e.V.  
Wiesbadener Strasse  
6 Frankfurt/Main - W 13

Tel: (0611) 77 06 8 ext. 340

Dr. H. Haeske  
Dipl. Phys. G. Spengler  
Dr. M. Morsbach  
Dipl. Phys. D. Herrmann  
Dipl. Ing. R. Schmitt  
Dipl. Ing. S. Mahold  
Dipl. Geophys. H. Köppel  
Dr. F. Rischbieter  
Dr. R.-A. Hintz

(Chief of acoustics division)  
Waterborne sound, ultrasonics  
Aerodynamics, hydrodynamics  
Theoretical physics  
Waterborne sound measurements  
Vibration, structureborne sound, noise control  
Geophysics, soil dynamics  
Acoustics, rock mechanics  
Geology, documentation

Firma Schüller  
Elektrochemische Fabrik  
Morfelder Landstrasse 115-9  
6 Frankfurt/Main

H.J. Gollmick

Ultrasonic cleaning and processing equipments

FRANKFURT/MAIN (Cont'd)

Farbwerke Hoechst AG  
Hoechststrasse  
6230 Frankfurt/M-Hoechst

GERMANY (Cont'd)

Tel: 0611-31 055

Dr. Hermann Oberst, Head of High Polymer  
Physics Laboratory  
Dr. F. Linhardt  
Dr. Alfred Schommer  
Dr. Braunisch  
Dr. (Miss) H. Gramberg  
G. Quietzsch

Vibration damping materials  
Measurement of high polymers  
Damping for noise control

High polymer physics  
Damping, sound reduction

GODESBERG (near Bonn)

Institut für Flugmedizin der DVL

Prof. S. Ruff

Effect of vibrations on human organisms

GÖTTINGEN

III Physikalisches Institut der Universität Göttingen  
Bürgerstrasse 42/44  
34 Göttingen

Tel: (0551) 5-58-44

Prof. Dr. Erwin Meyer, Director  
Dr. Heinrich Kuttruff, Asst.

Dr. Wolfgang Burgdorf  
Dr. A. Zosel  
Dr. K.G. Plass

Dr. Wolfgang Eisenmenger  
Dr. Klaus Brendel  
Dr. Martin Hund  
Dr. W. Pottel  
Dr. Peter Mertens  
Dr. Wolfram Schilz  
Dr. Heinz Dieter Gruschka  
Dr. F. Mechel  
Dipl. Phys. D. Guicking  
Dipl. Phys. Haebel  
Dipl. Phys. K. Lassmann  
Dipl. Phys. Kinder  
Dipl. Phys. D. Damaske  
Dipl. Phys. D. Ronneberger  
Dipl. Phys. Güsewell  
Dipl. Phys. Richard Reipka  
Dipl. Phys. Werner Lauterborn  
Dipl. Phys. J. Wolfrum  
Dipl. Phys. Karl Heinz Zimmermann  
Ernst-Georg Neumann  
Ortwin Lossen

Acoustics and wave physics (retiring 6/68)  
Cavitation, concert-hall acoustics,  
shock waves  
Psychoacoustics and electroacoustics  
Influence of pressure on high polymers  
Physical acoustics of liquids (cavitation and  
sound absorption at high frequencies)  
Ultrasonics, shock waves in liquids  
Absorbers for underwater sound  
Underwater sound diffraction and scattering  
Microwaves studies, group leader  
Sound and flowing fluids interactions  
Interaction of sound waves and moving fluids  
Sound-turbulence interaction  
Interaction of sound waves and moving fluids  
Dynamic elastic moduli of polymers  
Relaxation phenomena in gases  
Hypersound  
Hypersound  
Psychoacoustics studies in anechoic room  
Propagation in pipes with air flow  
Laser acoustics  
Shock waves  
Diffusers in room acoustics  
Plasma shock waves

GÖTTINGEN (Cont'd)GERMANY (Cont'd)

Max Planck Institut für Physikalische Chemie  
Bunsen Strasse 10  
34 Göttingen

Dr. Manfred Eigen  
Dr. H. Diebler  
Dr. L. de Maeyer  
Dr. G. Maass  
Dr. Frieder Eggers  
Dr. G. Ilgenfritz  
Dr. H. Strehlow

Kinetics of fast chemical reactions  
Temperature jump method for liquids  
Experimental studies of fast chemical reactions  
Ultrasonic absorption in liquids  
Ultrasonic relaxation in liquids  
Electric-field jump studies of relaxation  
Pressure jump and NMR studies

Max Planck Institut für Strömungsforschung  
Böttlingerstrasse 6/8  
34 Göttingen

Prof. Walter Tollmien, Director  
Dr. Ernst-August Müller  
Dr. Klaus R. Matschat  
Dr. Dieter W. Schmidt  
Dr. Hans Reichardt  
Dr. (Miss) Herbeck  
Dr. Beiter  
Dr. W. Sattler  
Dr. Willi Krämer  
Dr. A. Dinkelacker

Fluid mechanics  
Interaction of turbulence and sound - theory  
" " " " " " "  
" " " " " " "-experimental  
Cavitation and supercavitation  
Turbulence and wall pressure fluctuation  
Hydraulic cavitation  
Cavitation tunnel studies  
Drag reduction  
Aerodynamic noise, aeroseonics

Aerodynamisches Versuchsanstalt  
Böttlingerstrasse 10  
34 Göttingen

Prof. Dr. Ludwig

Aeroseonics

HAMBURG

Institut für Rundfunktechnik GmbH  
Mittelweg 113  
2 Hamburg 13

Tel: 0411 44 15 01

Dr. Walter Kuhl  
Dipl. Phys. Uwe Kath  
Heinrich Kösters

Broadcast and studio acoustics  
" " " " "  
" " " " "

Institut für Fangtechnik  
Bundesforschungsanstalt für Fischerei  
Palmsille 9  
Hamburg-Altona 1

Tel: 38 16 01

Prof. Andres von Brandt, Director  
Dr. Gustav Freytag  
Dr. H. Mohn

Fish catching  
Bio-acoustic detection of fish and fish sounds  
Echo-sounder studies

Hamburgische Schiffsbau-Versuchsanstalt  
Bransfelderstrasse 164  
Hamburg 33

Tel: 0411-61 75 51/53

Prof. Hermann Lerbs, Director

Naval architecture, propellers, cavitation

GERMANY (Cont'd)HANNOVER

Dr. A. Stankiewicz GmbH  
31 Celle/Hannover

Dr. A. Stankiewicz  
Christian Betzhold  
Karl Kurz

Damping materials  
Ship acoustics, partitions  
" " "

HEIDELBERG

Institut für Angewandte Physik  
University of Heidelberg  
Albert-Uberle Strasse 5

Tel: 43-8-36

Prof. Dr. Konrad Tamm, Director of Acoustics  
Dr. O. Weis, Asst. to Director  
Dr. H. Hinsch, Asst. to Director  
Dr. Klaus Hubner  
Dr. Kurt Breitschwerdt  
Maier  
Schulz

Physical acoustics  
Very high frequency sound sources  
Sound propagation in gases, solids and plasmas  
Plasma physics, sound in plasmas  
Chemical physics - propagation in electrolytes  
70-GHz source  
Acoustically excited superconducting layers

HEILBRONN

Staatliche Ingenieurschule  
71 Heilbronn

Dr. Ulrich Arns

HEPPENHEIM

Dr. Lehfeldt & Co. GmbH  
Siegfriedstrasse 150  
6148 Heppenheim/Bergstrasse

Dr. Lehfeldt  
Prof. Dr. R. Pohlman (Director,  
Laboratorium für Ultraschall, Technische  
Hochschule, Aachen) Consultant 1-2 days per week.

Ultrasonic equipments

HOMBURG

Physiologisches Institut  
Universität des Saarlandes  
665 Homburg, Saar

Prof. Dr. R. Stämpfli

Physiology of hearing

KARLSRUHE

Institut für Physikalische Chemie und Elektrochemie  
Technische Hochschule  
Englerstrasse 11

Prof. Dr. Paul Günther, Director

Chemical effects of ultrasound

KARLSRUHE (Cont'd)GERMANY (Cont'd)

Institut für Nachrichten-über-Tragung  
und Nachrichten-verarbeitung  
Technische Hochschule  
Kaiserstrasse 12  
75 Karlsruhe

Prof.Dr.-Ing. Gunther Kurtze

Electroacoustics, absorbers for underwater  
sound

Dipl.Ing. Karl Gunter Schwartz  
Theodor Keller

" " " " "

Siemens und Halske AG  
Rheinbrückenstrasse 50

Wilfried Struve

Electroacoustics

KIEL

Electroacoustic GmbH  
Westring 425/29

Tel: 40821

Dr. Erhard Ahrend, Technical Director

Sonar, transducers

Laboratorium von Dr. Fahrentholz Echoletfabrik  
Grasweg 2-6  
23 Kiel

Dr. Siegfried Fahrentholz  
Siegfried Fahrentholz, Jr.

Sonar, underwater sound  
" " "

Erprobungsstelle 71 der Bundeswehr  
Berliner Strasse 115  
Eckernförde (near Kiel)

Dr. A. Baurmeister

Underwater sound

Oceanographische Forschungsanstalt der Bundeswehr  
(Federal Defense Oceanographic Research Laboratory)  
Lornsenstrasse 7  
23 Kiel

Tel: 30771

Dir. Dr. Lechner

Dr. Peter Wille (formerly under Dr. Erwin Meyer) on staff

LUDWIGSHAFEN

Grunzweig und Hartmann AG  
67 Ludwigshafen am Rhein

Tel: 6092-500

Prof.Dr. Günther Kurtze, Director of Research  
Dr. Wilhelm Bausch, Head of Acoustics  
Dr. Helmut Schmidt, Acoustics Laboratory  
Jorgen von der Linde  
Dipl.-Ing. Hans-Ulrich Wilhelm  
Wolff  
Werner Kuglin  
J. Waladorff  
Christian Körner

Architectural acoustics  
Architectural acoustics and noise control  
Architectural acoustics  
Structure-borne sound propagation  
" " " "  
Architectural acoustics

GERMANY (Cont'd)MUNICH

Institut für Technische Physik  
Technische Hochschule  
Arcistrasse 21

Tel: 0811-5592 (321)

Prof.Dr. K.E. Zwicker, Director  
Dr. Roland Bücklein  
Dr. Ekkehart Krauth (will leave this fall)  
Dipl.Phys. Burkhard Stuber  
Dipl.Ing. Dieter Brebeck  
Dipl.Ing. Stephan Zurnatzis  
Dipl.Ing. Karl Glück

Modeling in architectural acoustics  
" " " "  
Modeling aerodynamic noise  
Modeling room acoustics  
TL of model walls

Deutscher Bundesbahn Versuchsanstalt  
Völckerstrasse 5  
München-Freimann

Tel: 0811-57 90 832, ext. 456

Dr. Camill Stüber  
Günther Hauck

Railroad noise and its control, diesels  
Ultrasonic flaw detection

Institut für Steuer und Regeltechnik DVL  
8031 Oberpfaffenhofen  
Post Wessling/obb

Tel: 08153-431/2

Prof. George Knausenberger, Director  
Dr. Friedrich Karl Schröder, Asst. Director  
and Head of Acoustics  
S. Waldschuetz  
H.I. Weingarten

Not acoustics  
Electroacoustics  
Aerodynamic noise, aerosonics

Institut für Physik der Atmosphäre DVL  
Munich-Riem Flughafen

Tel: 47 01 56

Prof. H.-G. Müller

Acoustics measurement technique in atmosphere,  
including acoustic anemometers

Bolkow Entwicklungen K.G.  
München-Ottobrunn

Tel: 0811-47-86 61, ext. 650

Dr. Horst Merbt  
Kurt Scifert

Underwater sound, aerosonics

Siemens und Halske AG  
Zentral Laboratorium  
8 München 25

Richard Karmann  
Martin Sauer  
Dr. Herbert Müller  
Werner Langsdorff  
Otto Hörner

Electroacoustics  
"

MUNICH (Cont'd)

Müller-BEW GmbH  
Herzogspitalstrasse 10  
8 München 2

Dr. Helmut A. Müller  
Dr. Manfred A. Heckl  
Dr. Ludwig J. Schreiber  
Achim Böhm

Rohde und Schwarz HG  
Muhldorfstrasse 15  
8 München 8

Prof. Dr. Werner Bürck  
Dr. W. Friess

Industrie Anlagen Betriebsgesellschaft  
München-Autobrun

Dr. Koppe

Fa Messerschmitt AG  
Entwicklungsabteilung  
8 München, Museumsinsel

Oskar Bschorr  
Detlev Kubanke

SAARBRÜCKEN

Institut für Angewandte Physik und Elektrotechnik  
Universität des Saarlandes

Tel: 2 13 51 (230)

Dr. Eberhard Hausler  
Hugo-Josef Seemann

Optical investigation of elastic waves

SALZGITTER-WATENSTEDT

Firma Linke-Hofmann-Busch  
3321 Salzgitter-Watenstedt

Gisbert Bobbert  
E.-A. Winkelholz

Sound in ducts with air flow  
" " " " " "

STUTTGART

1 Physikalisches Institut der Technischen Hochschule  
Wiederholdstrasse 13

Tel: 29 97 81

Prof. Dr. Hans Otto Kneser, Director  
Dr. Hans-Jörg Bauer  
Dr. W. Pechhold  
Dipl. Phys. H.G. Danielmeyer  
Dipl. Phys. E. Liska  
Dipl. Phys. Heinrich Roesler  
Dipl. Phys. K.F. Sehm

Physical acoustics  
Relaxation phenomena in gases, liquids  
Rel. phen. in high polymers  
" " " solids  
" " " mixtures of gases  
" " " gases  
" " " "

Institut für Nachrichtentechnik der  
Technischen Hochschule Stuttgart  
Breitscheidstrasse 3

Tel: 29 97 31

Prof. Dr. R. Feldtkeller, Director  
Hermann Scholl

Audio and Psycho-acoustics  
Pulsed noises and tones

GERMANY (Cont'd)

Tel: 0811-29 32 26

Ship radiated noise  
Flexural vibrations and radiation  
Measurements

Tel: 40 19 81

Electroacoustics, noise control

Aircraft noise, vibration fatigue testing

Jet and turbulence noises  
" " " "

GERMANY (Cont'd)STUTTGART (Cont'd)

Institut für Technische Physik  
Königsstrasse 70/74  
7 Stuttgart-Degerloch

Prof. Dr. Karl Güsele, Director of Institute

Structure-borne sound and architectural  
acoustics

Dr. Dietrich Neumeier, Director of Acoustics

TUBINGEN

Universität Tübingen  
Zoophysiolgisches Institut  
Tübingen

Prof. Dr. F. P. Mühres, Director  
Dr. Gerhard Neuweiler  
Dr. Hans-Ulrich Schnitzler

Bat sonar

" "  
" "

ULM

Telefunken Forschungsinstitut  
Söflingerstrasse 100  
79 Ulm (Donau)

Manfred Börner  
Hans Schüssler  
Heinz Kusch  
H. Mangold

Electromechanical filters

" "

Staatliche Ingenieurschule  
Ulm (Donau)

Heinrich Hauser

Plate vibrational patterns



28

D-13

GREECE

ATHENS

Ethnikon Metsovion Polytechnion  
Odos 28 Octovriou 42

Prof.Dr. Basile Papathanassopoulos

Building acoustics

HUNGARYBUDAPEST

Hungarian Academy of Sciences  
Acoustical Research Group  
Pushkin U.5-7  
Budapest VIII

Tel: 141-217

Prof. T. Tarnóczy

Architectural acoustics, automatic speech  
recognition  
Ultrasonic fields

Dr. A. Illényi

Virgy Research Laboratory

Dr. Imre Egri

Hungarian Radio

László Kiss  
Jenő Radnai  
Sándor Steinbach

Scientific Railway Institute

P. Greguss  
Péter Domén  
Béla Széchy

Ultrasound treated retinal degenerations

ÁÉTV Building Designing Institute

András Kotschy

Industrial Institute for Communication Research

Maria Steinbach

EAG Research Laboratory

Rezső Karcsay

ITALYLA SPEZIA

SACLANT ASW Research Center  
Viale San Bartolomeo, 92

Tel: 27-595

Dr. M.W. Van Batenburg (Netherlands), Director	
Dr. Royal Weller (US), Asst. Director	
Dr. A. Dahme (Germany)	Oceanography
Mr. G. Carley (US SecNav)	Operations research
Mr. A. Bruce (UK)	Target classification
Dr. J.E. Lokken (Canada)	Special studies
Mr. R. Laval (France)	Sound propagation
Mr. R. Hall (UK) (Replaces Mr. A. Bruce, Sept. 1967)	

Mariperman  
Viale San Bartolomeo 92

LCDR A.M. Barile	Submarine and propeller noise
Col. F. Bagnoli	
Col. G. Corio	
Sten A. Piuma	

U.S.E.A.  
Via P. Mantegazza, 24  
San Terenzo en Mare

Prof. G. Paziienza, Director	ASW, sonar
Prof.-Ing. M. Federici, Consultant	ASW, noise
Dr. Cocici	System engineering, signal processing
Dr. M. Benedetti	Sonar calibration

MILAN

Laboratorio di Acustica Applicata  
Istituto di Fisica Tecniche Macchine  
Politecnico  
Piazza Leonardo da Vinci

Tel: 292-105

Prof. Gino Bozza, Director of Institute; Chancellor of College  
Dr. Nello Morresi, Director of Acoustics Laboratory Noise and vibration and their control

Direttore Laboratori Gumma  
Pirelli S.p.A.  
Viale Sarca 202

Tel: 6222

Dr. Arturo Chiesa	Acoustics measurements of car, spectrum analysis
Ing. Rinonapoli	Spectrum analysis, car dynamics
Ing. L. Tambini	Tire vibrations
Dr. Ing. Valentino Zerbini	Dynamic moduli of rubbers
Ing. Giorgio Tangorra	" " " "
Ing. Angelo Bassi	" " " textiles
A. Angioletti	" " " rubber

PADUA

University of Padua  
Dept. of Oto-rhino-laryngology

Prof. Dr. Michele Arslan

Ultrasonic treatment

PISA

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University of Pisa  
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Prof. M. Baccaredda

Dynamic elastic properties of polymers

ROME

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Prof. Amedeo Giacomini, Director  
Prof. Italo Barducci

Physical acoustics  
Electroacoustics, architectural acoustics,  
noise

Prof. Alfonso Barone

Propagation in gases and liquids, experi-  
mental techniques

Prof. Pietro G. Bordonì

Propagation of ultrasound in solids at low  
temperatures

Prof. Mario Nuovo

Propagation in solids at low temperatures

Prof. Daniele Sette (Consultant only)

Ultrasound in liquids, cavitation

Prof. Livio Verdini

Transducer materials, solids at low  
temperatures

Dr. Fausta Fanti

Propagation in solids, experimental techniques

Dr. Paolo Emilio Giua

Propagation in solids, sonic modulation of  
lasers

Dr. Fabio Massimo Mazzolai

Internal friction in solids-experiments

Dr. Luciano Palmieri

Propagation in solids

Gaetano Cannelli

" " "

Istituto di Fisica della Facoltà d'Ingegneria  
Università di Roma  
Città Universitaria

Tel: 4689, ext. 606

Prof. Daniele Sette, Director

Structure of liquids and solids

Dr. M. Bertolotti, Assistant

Lasers and semiconductors

Dr. Francesco Wanderlingh

Nuclei in water, cavitation inception

Dr. Giovanni D'Arrigo

Propagation in liquid mixtures

Dr. L. Mistura

Propagation in liquified Argon

Dr. Cettina Diana Messina

Cavitation inception and nuclei

Laboratorio di Fisica Tecnica della Facoltà  
di Ingegneria  
Università di Roma  
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Prof. Gino Parolini

Room and building acoustics

Prof. Italo Barducci (Consultant)

Istituto Superiore delle Post e Telecomunicazioni  
Viale Trastevere 189

Dr. Foster Bianchi (Director of  
Acoustics Laboratory)

Communications acoustics

Dr. Giovanni Ibba

" "

L. Giacomelli

Electrical networks

Prof. Italo Barducci (Consultant)

Centro Esperienze Idrodinamiche della Marina Militare  
Ministero della Difesa-Marine

T. Colonnello G.N. Pier Giacomo Maioli,  
Director

Naval architecture, cavitation, noise

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Bruno Finzi-Contini

TURIN

Istituto Elettrotecnico Nazionale  
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 Mrs. Cesarina Bordone-Sacerdote  
 Asst. and Interpreter  
 Dr. Roberto Piazza  
 Dr. Franco Ferrero  
 Ing. Giulio Cervini  
 Dr. Giuseppe Righini

Electroacoustics, human voice

Electroacoustics, acoustic measurements  
 Microphone calibration, attenuation of sound  
 Phonetics and human voice  
 " " " "  
 " " " "

THE NETHERLANDSAMSTERDAM

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Dr. Bosman  
C.E. Bos  
Paul Kuypers  
L. Joosten  
Physica Department  
Faculteit der Wiskunde en Natuurwetenschappen  
Universiteit van Amsterdam  
Plantage Muidergracht

Physiology of hearing, deafness  
" " " "  
Psychoacoustics, masking  
Physiology of hearing, deafness

Dr. H. den Hartog  
Dr. F.A. Muller

Architectural and musical acoustics  
" " " "

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D. van Wulfften Palthe  
Jacob W.M. Baars  
Pieter A. de Lange  
Alex de Bruijn  
Fr. A. Bilsen

Architectural acoustics  
" "  
" "  
" "  
" , absorbing materials

Instituut voor Gezondheidstechniek TNO  
Sound and Light Division

Dr. Jan van den Eijk, Head  
J. van Ierland  
Dr. Max Conrad Gemperts

Building acoustics, TL  
" " "  
Transition through slits and holes,  
interferometers

Marinus L. Kasteleijn

Technisch Fysische Dienst TNO en TH  
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Ir. G.J. van Os, Acoustics Section

Building acoustics, concert-hall acoustics,  
noise control, machinery noise, aircraft  
noise  
Vibrations, ship machinery noise and vibration  
Vibrations, vibration damping re ships  
Vibrations  
Building acoustics  
Ship vibrations and acoustics

Ir. Jan H. Janssen  
Ir. Floris H. Van Tol  
Ir. C.B. Van der Voorde  
Ir. B. van Steenbrugge  
Ir. Jan Buiten  
Ir. Tjeerd Ten Wolde  
Johannes J. Matser

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Dr. Friedrich Schwarzl, Head of Physics Section	Dynamic mechanical properties of polymers
H.W. Bræ	" " " "
C.W. van der Wal	" " " "
L.C.E. Struik	" " " "
Cornelis J. Nederveen	

Laboratorium voor Aero-en Hydrodynamica  
der Technische Hogeschool  
Rotterdamseweg 145

Tel: 33222

Ir. R.E. de Haan

Aerosonics, boundary layer turbulence

EINDHOVEN

Instituut voor Perceptie Onderzoek  
de Technische Hogeschool  
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Antonie Cohen  
Ben Lopes Cardozo  
Roel J. Ritsma  
Dr. van den Brink  
Johan t'Hart  
Gerrit Vossers  
Paul Smulders  
Lei Willens

Perception of sound and speech  
Speech synthesis, phonetics  
Hearing, pitch perception  
" " "  
Psycho-acoustics  
Speech analysis and synthesis

Philips Research Laboratories

Prof. J.L. van Santen, Foreign Visitors Liaison  
Jan de Boer, Director  
Dr. Ir. Kees Teer, Head electroacoustics  
Dr. C. Wansdronk  
C.M. van der Burgt  
Ir. Nicolass V. Franssen

A.L. Stuijts  
E. de Niet  
Ir. D.L.A. Tjaden  
E.E. Havinga  
R. David  
A.S. van der Goot  
D.J. van Ooijen  
H.P.C. Daniels  
Luitje Alons  
B. de Boer  
Cornelis M. Boon  
Daniel M. Duinker  
Derk Kleis  
Gideon M. Lodders  
Henk Mulder  
F.L.J. Sangster  
Stefan de Koning  
W. Tak  
J.A. Van Vliet

Electroacoustics (formerly)  
Magnetic recording, transducers  
Mechanism of hearing, masking  
Materials for transducers and delay lines  
Mechanism of human voice and hearing,  
wind instruments  
Materials for transducers, ferrites  
Magnetic recording, transducers  
" " "  
Transducer ceramics  
Magnetoacoustics  
Internal friction of metals  
" " " " , low temperatures  
Ultrasonic welding metals and plastics

Electromechanical transducers

THE NETHERLANDS (Cont'd)THE HAGUE

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Pres. Dr. J.W. Tesch  
Dr. H.A. van Leeuwen  
Mrs. W.P. Vermeer

Industrial deafness  
" "

Fysisch Laboratorium RVO-TNO  
Vlakte van Waalsdorp

Tel: 070-24 43 60

Ir. H.A.J. Rijnja  
Ir. K. Posthumus

Sonar, underwater sound  
Noise

HILVERSUM

Laboratorium Nederlandsche Radio Unie  
Amperestraat 10

Dr. Ir. J.J. Geluk, Director  
Ir. F.J. van Leeuwen

Studio acoustics, stereophony, broadcast  
acoustics  
Broadcast acoustics, reverberation plates,  
vibrations

LEIDEN

Kamerlingh Onnes Laboratorium  
University of Leiden

Prof. Dr. N.J. Poulis

Magnetoacoustics

ROTTERDAM

Dijkzigt Hospital

Dr. M. de Vlieger

Echo-encephalography

SOESTERBERG

Instituut voor Zintuigfysiologie RVO-TNO  
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Dr. Reinier Plomp  
Tammo Houtgast

Psychoacoustics, musical acoustics

UTRECHT

Division des Recherches des NS  
Kamer 1304 Hbg III  
Nederlandsche Spoorwegen

M. van der Hoek

Diesel noise



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Dr.Ir. J.D. van Manen

Ir. R. Wereldsma

L. van Wijngaarden

Propeller oscillation forces

Propeller vibratory forces

Collapse of cavitation bubbles

NORWAYBERGEN

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A. Kildal

Acoustic streaming

" "

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Tore Olsen  
Knut Fintoft  
Oddvar S. Hølbostad  
Ole H. Herbjørnsen  
Kjell Gjaevenes  
Tor Erik Vigran

Acoustics, ultrasonics, physical acoustics  
Jet noise

Low temperature physical acoustics

HORTEN

Norwegian Defense Research Establishment  
Division for Underwater Warfare  
Karl Johansvern  
Horten

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Mr. I. Engelsen, Supt.  
Ole Fr. Harbek, Senior Scientist  
Per Heimdal  
Dr. F. Lied  
Mr. A. Aubell  
Mr. E. Kjellsby  
Odd Olsen

Underwater sound

" "

Acoustic-oceanographic studies  
Transducer calibration  
Acoustics research  
" "

Simonsen and Mustad Co.  
Division of Simonsen Radio A.S.  
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Sonar and echo sounders

TRONDHEIM

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Prof. Dr. H. Wergeland  
Asbjørn Krokstad

Architectural acoustics  
Theoretical acoustics  
Loudspeakers, room acoustics

SPAINMADRID

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144 Serrano

Andrés Lara-Sanez  
Vincente Banuls-Terol  
J.S. Santiago  
A. Perez-Lopez  
Miguel Llorente

Building acoustics

" "

" "

" "

Musical acoustics

SWEDENGOTHENBURG

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Institutionen för Byggnadsteknik  
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Kjell Andersson  
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Building acoustics

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Traffic noise

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Björn  
Dr. Gunnar Liden

Physiology of hearing  
Audiology, stereophonic hearing  
Phonetics, speech  
Audiology

Svensk Akustiplanering AB  
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B. Lundqvist

LIDINGÖ

Akustikkonsult AB  
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Acoustic consultants

LUND

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Electrical Measurements Laboratory

Prof. H. Hertz

Medical ultrasonics

Department of Internal Medicine  
University Hospital  
Lund

Dr. Inge Edler

Ultrasound cardiology

STOCKHOLM

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S.E.G. Ohman  
Frans Fransson  
Wiktor Jasse  
Janos Martony  
A. Risberg  
Marianne Richter  
U. Rengman  
O. Franzen  
K. Galyas  
Johan Liljencrants  
Jan Lindqvist  
P. Tjernlund

Speech, language, noise control  
Speech analysis and synthesis  
Phonetics  
Musical acoustics  
Phonetics  
"  
Hearing aids, speech communication  
  
Communication with hard of hearing  
" " " " "  
Analysis and synthesis of speech  
Physiology of larynx  
Extraction of voice pitch

Akustikbyrån AB  
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Mr. Göran Gadefelt, President  
Chief Engineer

Anders O. Andersson  
Stig Söderqvist  
Olle Backteman  
Bo Egerborg

Naval acoustics, ship noise, structural  
vibrations, pump noise  
Vibration isolation and isolators  
Pump pulsations and noise

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Prof. Torsten Skoog  
C.M. Hesser  
Dr. Jan Wersäll  
C.G. Bernhard  
Lars Anggard  
P.-G. Lundqvist  
Dr. Günter Rösler\*  
Dr. Bertil Johansson\*  
Hakan Sjögren\*

Physiology of ear  
Otorhinolaryngology  
Naval medicine, hearing  
Auditory physiology  
Physiology of ear  
Cochlear functions in animals  
Physiology  
Physiological acoustics, audiometry  
Applied audiology, foetus hearing  
" "

\*Work at Speech Trans. Lab., KTH

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C. Wachtmeister

Electro-acoustics (presently only education)

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H. Gerdien

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Ing. Ove Brandt  
Sten Wahlström  
G. Westerberg

Architectural acoustics

" "

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Dr. Jan Nordmark

Pitch perception

Research Institute for National Defense  
Institute for Acoustics  
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Ing. Sigfrid Wennerberg  
Lars Götherström  
Harald Haegermark  
Ake Hallböck  
Claes Runborg

Acoustics  
Hydroacoustics

"  
"

Kungl. Fortifikationsförvaltningen  
Tegelbacken  
Stockholm 18

Dr. Gunnar Lindh

Underwater explosions

UPPSALA

Physical Institute  
Ultrasonics Group  
Universitet i Uppsala

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Dr. Sven Johnson

Ultrasonic delay lines  
Medical

SWITZERLANDBERNE

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Prof. Willi Furrer

Electroacoustics, broadcast acoustics

ZURICH

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W. Wehrle  
Leonard Lukaszek

Building acoustics and noise control  
Noise control  
Building acoustics

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Sternwartstrasse 7

Prof. Heinrich Weber

Aircraft noise

Department of Hygiene and Physiology  
Swiss Federal Institute of Technology

Dr. Etienne Grandjean

Hearing and deafness

UNITED KINGDOM - ENGLANDBIRMINGHAM

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Electrical Engineering Department

Prof. D.G. Tucker, Dept. Head  
Dr. V.G. Welsby

Dr. J.W.R. Griffiths  
Dr. H.O. Berkday  
Dr. Brian Kenneth Gazey  
Dr. Dennis C. Cooper  
James R. Dunn  
Prof. J.T. Allanson  
D.P. Howson  
Prof. H.A. Prime  
E.S.Y. Lin

Underwater sound, sonar, arrays  
Sonar, underwater sound, non-linear acoustics, arrays  
Sonar signal processing, noise measurement  
Non-linear end-fire arrays  
Sonar, arrays  
Acoustic-optical effects  
Scanning sonars  
Psychological acoustics  
" "  
Ultrasonic flaw detection  
Pneumatic source

Department of Mechanical Engineering

Dr. B. Mills  
J.C. Maltbaek  
G.H. Trengrouse  
F.B. Blader

Mechanical vibrations  
Vibration characteristics of structures  
Noises generated by pressure waves  
Non-linear vibration isolators

BRADFORD

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Physics Department

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Mechanical properties of polymers

Electrical Engineering Department

A.R. Bailey  
E.C. Bell  
L.N. Hulley

Acoustics measurements  
" "  
" "

Civil Engineering Department

F.S. Hudson

Building acoustics

BRIGHTON

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Physics Department

Dr. M.G. Cornwall  
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Colin Wood

Ultrasonic amplification in piezoelectric semiconductors  
" " " "  
" " " "



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Dr. A.F. Devonshire  
Dr. H.F. Freundlich  
Dr. D. Parsons

Magneto acoustics  
Ferroelectrics  
Medical ultrasonics  
Propagation in liquid helium

Department of Aeronautical Engineering

Prof. A.R. Collar

Flutter, structural damping, mechanical  
vibrations

Bristol General Hospital

Department of Medical Physics

Dr. J. Angell James  
Dr. H.F. Freundlich  
Dr. P.N.T. Wells  
M.A. Bullen  
D.H. Follett

Ultrasonic treatment of vertigo  
Ultrasonics diagnosis and treatment  
" " " "  
" " " "  
" " " "

Bristol College of Science and Technology  
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Department of Electrical Engineering

J.S. Williams  
E. Whipp

Speech analysis, telephony  
Ultrasonic propagation in metals

Bristol Siddeley Engines Ltd.

John Denis Voce  
Hylton Dawson

Compressor noise  
" "

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Department of Applied Mathematics and Theoretical Physics

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Dr. T. Brooke Benjamin

Turbulence, aerodynamic noise  
Cavitation, turbulence

UNITED KINGDOM - ENGLAND (Cont'd)CAMBRIDGE (Cont'd)  
Cambridge University (Cont'd)  
Department of EngineeringA.M.P. Brookes  
Dr. R.W. Gregory  
H.S.L. HarrisVibration and damping  
Non-linear vibrations  
" "Department of Geology and GeophysicsDr. D.H. Mathews  
E.J.W. JonesAir piston source  
" " "Department of Zoology, Madingley LaboratoryDr. W.H. Thorpe  
Prof. R.A. HindeAnimal and bird acoustic behavior  
" " " " "Applied Psychology Research Unit  
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Dr. Donald E. Broadbent, Director  
Dr. J.A. Leonard  
Dr. R.T. Wilkinson  
Miss Muriel M. Woodhead  
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Ultrasonic blind aids  
Interaction of noise and sleeplessness  
Effect of noise on visual tasks  
Effect of noise on performanceCOLCHESTEREssex University  
Wivenhoe Park

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Magneto-acoustics

Department of Mathematics

Dr. Ian Proudman

Turbulence, aerodynamics

COVENTRYLanchester College of Technology  
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Electrical Engineering DepartmentDr. D.I. Crocraft  
S. Gergely  
L.R.V. HoareUltrasonic detection of stresses in metals  
Ultrasonic propagation in metals  
Ultrasonic blind aidsMechanical Engineering Department

C.J.M. Leo

Boundary-layer noise measurements

UNITED KINGDOM - ENGLAND (Cont'd)CRANFIELD

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Advanced School of Automobile Engineering

Prof. J.R. Ellis  
G.H. Tidbury  
J.G. Fox  
G.D. Whitehead

Tire and vehicle vibrations  
" " " "  
Response of humans to vibrations  
" " " " " "

Department of Aerodynamics and Fluid Mechanics

Dr. T.H. Hodgson  
G.S. Ram

Pressure fluctuation in turbulent shear flow  
Aerodynamic noise

Department of Metal Physics

Prof. A.J. Kennedy  
B.S. Hockenhull

Ultrasonic propagation in metals  
Internal friction in metals

Department of Aircraft Propulsion

E.R. Norster  
R.W. Roberts

Turbulent flame propagation, ultrasonic  
atomization of fuels  
Combustion noise

DURHAM

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Physics Department

Dr. W.D. Corner  
Dr. K.N.R. Taylor

Magnetostriction  
"

Department of Geology

Dr. F. Gray  
Dr. R. Long

Seismology  
"

ESSEX

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W. Halliday, Chief Scientist  
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C.H. Cooke

Acoustic back-scattering from fish  
Sonar digital readout

UNITED KINGDOM - ENGLAND (Cont'd)EXETER

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Physics DepartmentDr. J.R. Drabble  
N.A. PortmanSound velocity in solids  
Solids at microwave frequenciesFARNBOROUGHRoyal Aircraft Establishment  
Farnborough, HampshireC.H.E. Warren  
D.R.B. Webb  
Eric Maskell  
K. HeronSonic bangs, underwater sound  
" " " "  
Vortex flows  
Sonic bangs, acousticsHULLHull University  
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Mathematics Department

Prof. N.B. Slater

Molecular vibrations, relaxations

Psychology Department

Dr. J. Annett

Auditory detection

KEELEKeele University  
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Department of CommunicationProf. D.M. MacKay  
Dr. Wm. A. Ainsworth  
Dr. John P. WilsonPerception  
Speech synthesis  
Artificial pattern recognition, speech  
analysisBruce Millar  
Michael John UnderwoodLANCASTERLancaster University  
Bailrigg House

Tel: Lancaster 66201

Department of PhysicsProf. E.R. Dobbs  
Dr. A.G. BetjemannUltrasonic investigations at microwave  
frequencies at low temperatures.  
Microwave acoustics propagation in metals

UNITED KINGDOM - ENGLAND (Cont'd)LEEDS

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Leeds 2, Yorkshire

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Physics Department

Dr. F.E. Hoare

Ultrasonic propagation in metals at low temperatures

Department of Gas Engineering and General Fuel Science

Dr. G.L. Isles

Combustion noise

LEICESTER

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Department of Engineering

D.J. Cockrell  
I.J. Thwaites

Turbulent boundary layers  
Aerodynamic induced vibrations

LIVERPOOL

University of Liverpool  
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Department of Building Sciences

Dr. H.D. Parbrook  
Dr. Morris G. Davies  
Dr. Michael E. Bryan  
Dr. William Tempest  
Kenneth A. Mulholland  
T.I. Hempstock

Building acoustics, psychoacoustics  
Aerosonics  
Audiology, response to low frequencies  
" " " " "  
Transmission through noles and slots  
Audiometry

Electrical Engineering Department

Dr. Robert Holmes

Ultrasonic propagation in gases

Department of Oceanography

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Underwater acoustics

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Dr. Ernst Arthur Neppiras  
Dr. Brian James Lavercombe  
G.M.B. Webber  
Graham John Curtis  
M.H. Freeman

Physical acoustics  
Propagation through foams  
Ultrasonic cavitation  
Acousto-optical effects, propagation in gases  
Propagation in liquid metals  
Concert Hall acoustics  
Visualization of ultrasonic stress waves

LONDON (Cont'd)UNITED KINGDOM - ENGLAND (Cont'd)Imperial College (Cont'd)

John Parrot  
 Ray T. Smith  
 Ronald Young  
 Brian Edward Evans  
 Alan Trevor Fry  
 A.A. Pollock  
 Rex Sinclair  
 Brian John Tunbridge  
 Barry Webster  
 R. Peters

Ultrasonic cavitation in liquid metals  
 Propagation of shock waves  
 Sonoluminescence in ultrasonic cavitation

Acoustic emission during deformation  
 Gear noise

Gas bubbles in sound field

Telecommunications Department

Prof. E. Colin Cherry

Speech perception, analysis, communications,  
 binaural hearing  
 Speech analysis

J.J. Sparks

Department of Applied Mechanics

Dr. P. Grootenhuis  
 Dr. D.E. Newland

Vibration damping  
 Vibrations, damping, machinery noise

Department of Mathematics

Prof. M.J. Lighthill  
 Dr. John E. Ffowcs Williams

Turbulence, aeroseonics  
 Turbulence noise

Department of Biophysics

Dr. B. Mc. A. Sayers  
 N.W. Ellis

Neurophysiological aspects of hearing

King's College  
 Strand  
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Department of Zoology

Dr. John David Pye

Ultrasonic bioacoustics, bat sonar

Queen Mary College  
 Mile End Road  
 London, E.1.

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Department of Electrical Engineering

Dr. Martin Redwood

Ultrasonic waveguides, vibrations of thin  
 piezoelectric plates  
 Noise studies of electrical machinery  
 Ultrasonic cavitation in oils  
 Plate vibrations

A.J. Ellison  
 Dr. H. Tropper  
 P. Lloyd

Department of Mechanical Engineering

Dr. J.I. Soliman  
 Dr. S.W.E. Earles

Vibrations, random vibrations  
 Vibration damping by friction

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Department of Phonetics

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Bill Huggins

Department of Mechanical Engineering

Prof. R.E.D. Bishop

Mechanical vibrations, flutter, random vibrations

Dr. B.S. Massey

Pressure pulsations in tubes

S.R. Montgomery

Unsteady pipe flow

A.G. Parkinson

Vibrations of flexible shafts

R.P. Brann

Vibrations and automatic control

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Royal National Throat, Nose and Ear Hospital  
330 Gray's Inn Road  
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Dr. Ronald Hinchcliffe  
Dr. John J. Knight

Physiology of hearing  
Vestibular effects, ear impedance studies  
Audiology, industrial hearing loss, ear impedances

Dr. Ade D. Pye  
Dr. A. Sokolowski  
Prof. D.B. Fry  
A.S. Walker

Animal ear structures  
Middle ear experiments on cats  
Audiology and deafness in children  
Audiology re children

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Battersea Park Road  
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Department of Experimental Physics

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Dr. T. Hinton  
Dr. R. George Harlow

Internal friction in metals  
" " " "  
Propagation of sound in gases

Department of Mechanical Engineering

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J.W. Wielogorski

Vibration isolation  
Hydraulic cavitation

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Department of Mechanical Engineering

W.G. Carter  
T.N. Gillbo

Fluid-induced vibrations  
Subsonic vibrations in cutting

National College for Heating, Ventilation, Refrigeration and Fan Engineering

W.C. Osborne

Fan noise, noise analyses

UNITED KINGDOM - ENGLAND (Cont'd)LONDON (Cont'd)

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Department of Physics

Jack Blitz  
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Cedric Burdett

Ultrasonics propagation and applications  
Internal damping in metals  
Internal damping of crystals

Department of Mechanical Engineering

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High-frequency fatigue, internal damping

Department of Biology

M.D.R. Jones

Insect acoustics

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Department of Physics

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Dr. E.L. James  
Dr. L.V. Kite  
Dr. H.G. Leventhall

Stress waves in mechanical wave guides  
" " " " " "  
Ultrasonic stress wave propagation  
Audiofrequency acoustics

Northampton College of Advanced Technology  
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Tel: Clerkenwell 4399

Department of Physics

F.Y. Paynton  
D.N. Szyth

F.E. Freeman

I. Woloshyn

Ultrasonic visualization  
Ultrasonic visualization, diagnostic uses  
of ultrasound  
Ultrasonic power measurement, plotting of  
acoustic fields  
Medical ultrasonics

Department of Ophthalmic Optics

M.H. Freeman

Visualization of stress waves in solids

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62-65 Chandos Place  
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Prof. W. Burns

Cochlear function, audiology, industrial  
hearing losses

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Dr. R. Warwick  
J. Pond

Production of ultrasonic lesions in tissue  
Ultrasonic regeneration of tissue



UNITED KINGDOM - ENGLAND (Cont'd)LONDON (Cont'd)

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J.D. Hood  
Dr. (Miss) M.R. Dix

Vertigo, deafness, cochlear and vestibular  
studies, effects of loud noises, loudness

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Dr. T.S. Littler

Audiometry, deafness

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A. Bowen-Davies

Ultrasonic treatment of vertigo, deafness

Willesden General Hospital  
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Tel: WIL 4545

Dr. Douglas Gordon

Medical applications of ultrasound

Royal Naval College  
Greenwich  
London, S.E.10

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Department of Physics

Prof. J.F.W. Bell

Ultrasonic propagation in metals, under-  
water sound, transducers

Department of Applied Mechanics

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Ship structures and vibrations

National College of Rubber Technology  
Northern Polytechnic  
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Dr. G.N. Welding  
Dr. N.H. Langton

Growth of bubbles in polymers  
Ultrasonic degradation of polymers, dynamic  
mechanical testing of polymers  
Acoustic cavitation in polymers

Peter Vaughn

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Peter H. Allaway  
Peter Grottenhuis

Noise and vibration control  
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UNITED KINGDOM - ENGLAND (Cont'd)LONDON (Cont'd)

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Building acoustics, noise control,  
transmission loss measurements

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Architectural acoustics, studio acoustics

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A.H. Ithell  
Dennis L. Richards  
F.E. Williams

Ear impedances, artificial ears  
Subjective telephone tests  
Hearing aids, telephone acoustics

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Velocity of sound in gases

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Vocal acoustics

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Ceramic transducers

LOUGHBOROUGH

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Prof. W.H. Floyd  
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Noise in factories, effects on hearing,  
ear defenders

Department of Applied Science

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Viscoelastic and dielectric properties  
of polymers

UNITED KINGDOM - ENGLAND (Cont'd)MALVERN

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Dr. K.F. Hulme  
Mr. D. Jones  
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Piezoelectric semiconductors

Cadmium sulfide (White amplifier)

MANCHESTER

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Department of Audiology and Education of the Deaf

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Measure of evoked responses

Department of Mechanics of Fluids

Dr. J.H. Gerrard

Vortex shedding phenomena

Department of Metallurgy

Dr. George M. Leak

Internal friction of metals

Department of Mechanical Engineering

Dr. J.L. Livesey

Flow excited vibrations of heat-exchanger  
tubes

R.C.F. Dye

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Department of Civil Engineering

Dr. R. Mathieson

Pulsating flows, cavitation erosion

Department of Occupational Health

Prof. T.S. Scott

Recovery of noise induced temporary hearing  
loss

Dr. G.R.C. Atherley

Audiology, relation of hearing loss to noise  
exposure

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Ambiophonic sound systems  
Machinery noise and vibration  
Artificial reverberation  
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UNITED KINGDOM - ENGLAND (Cont'd)MANCHESTER (Cont'd)

## Manchester College of Science and Technology (Cont'd)

Mechanical Engineering Department

Prof. F.Koenigsberger  
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B.J. Fielding

Ultrasonics application in production  
Diesel engine noise and vibration  
" " " " "

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J.R.A. McDonald

Noise surveys in cities

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Prof. K M. Entwistle

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Trafford Park  
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Dr. Arthur J. King  
C.R. Maguire  
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Machinery noise and vibrations  
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A. Emerson

Mechanical vibrations  
Aerodynamic induced vibrations of tubes  
Propeller cavitation and ship vibration

Department of Industrial Health

Prof. R.C. Browne

Noise in power stations

C.A. Parsons and Co. Ltd.  
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Bruno Berger

Building acoustics, machinery noise

## Research Laboratory for Solid State Physics

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Mr. M.N. Butler

Microwave ultrasonics in Germanium

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Dr. C.A. Bates  
Dr. F.W. Sheard  
G.A. Toombs

Microwave ultrasonics re paramagnetic crystals  
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UNITED KINGDOM - ENGLAND (Cont'd)NOTTINGHAM (Cont'd)Nottingham University (Cont'd)

Dr. P.M. Rowell  
V.W. Rampton

Microwave ultrasonic resonance  
" " "

Department of Mechanical Engineering

Prof. G.B. Warburton

Vibrations of plates and shells

Department of Mining Engineering

Dr. J.R. Brown

Noise in fan systems

OXFORDOxford University

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Department of Physics, Clarendon Laboratory

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Microwave ultrasonics, magnetoacoustics  
Propagation in solids at low temperatures

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Ultrasonic dispersion in gases

Department of Engineering Science

Prof. D.W. Holder  
Dr. H. Motz

Turbulence, vortex shedding, aerodynamics  
Waves in anisotropic media

Department of Clinical Biochemistry

Norman J. Pritchard

PORTLAND

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Mr. J.F. Milton  
Dr. F.A. Sharp  
Dr. D. Stansfield  
Mr. P.C. Dearlove  
Dr. J.C. Morris  
Dr. A. Freedman  
Dr. J.S. Pyett  
Dr. E.J. Risness  
Mr. N.T. Reynolds  
Mr. G. Barker

Sonar development  
Acoustics Research  
Ships sonar  
Electroacoustics  
Transducers  
Transducers  
Transducers  
Acoustic reflections, element interaction  
Acoustic measurements  
Sonar signal processing  
Propagation  
Flow noise

READING

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Vibration theory, damping

UNITED KINGDOM - ENGLAND (Cont'd)READING (Cont'd)

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Cross Oak Lane  
Salfords  
Redhill, SurreyDr. J.S. Palfreeman  
Dr. David Beecham  
Colin Connolly  
C.F. Brockelsby

Ultrasonic delay lines

Ultrasonic delay lines

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Eastcote Road  
Ruislip, Middlesex

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J.N. Holmes

Speech analysis and synthesis

SALFORDThe Royal College of Advanced Technology  
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Department of Pure and Applied Physics

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Dr. Basil Brown

Ultrasonics, transducers, cavitation

Dr. Peter Lord

Technological acoustics

Dr. Roy D. Ford

Structureborne sound

Jesse Butterworth

Flow visualization for Helmholtz resonator

Bryan F. Day

Highway noise, scale models

Michael Ibbot

Ultrasonic cavitation

John G. Walker

Repeatability of audiometric tests

Dr. B.W. Lowthian

Internal friction of alloys

Angus W. Walker

Sandwich walls

Department of Electrical Engineering

Dr. G.L. Gooberman

Ultrasonic investigation of polymers

Dr. J.H. Calderwood

Ultrasonics applied to medicine

Dr. M. Semain

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Department of Mechanical Engineering

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Mechanical vibrations

Dr. J.L. Wearing

Vibration of plates and beams

Department of Metallurgy

Dr. C.J. Ball

Internal friction in aluminum

UNITED KINGDOM - ENGLAND (Cont'd)SHEFFIELD (Cont'd)

## Sheffield University (Cont'd)

Department of Fuel Technology and Chemical Engineering

Dr. K. Littlewood  
J. Swithenbank

Acoustics of solid rocket propellants  
Combustion instability, supersonic combustion

Department of Psychology

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Psychoacoustics

SOUTHAMPTON

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Southampton, Hampshire

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Mathematics Department

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Aeroseonics, theory of turbulent noise

Physics Department

Dr. Dorwent M.A. Mercer  
Dr. H.G. Jerrard

Spectral analysis, correlation, organ pipes  
Acoustic birefringence

Department of Aeronautics and Astronautics

Prof. Geoffrey M. Lilley  
Dr. Donys J. Mead\*  
Dr. J.P. Jones\*  
P.C. Parks\*

Aerodynamic noise  
Structural vibrations and damping  
Flutter  
Control systems, chain-code siren

\* Research done at Institute of Sound and Vibration Research

Institute of Sound and Vibration Research

Dr. B.L. Clarkson, Director  
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Dr. Theodor Prieto  
Dr. D.J. Mead  
Prof. (Emeritus) E.E. Zeppler  
CDR. R. Ross A. Coles, RN  
Christopher L. Morfey

Structural vibrations and fatigue  
Jet turbulence, mufflers  
Aeroseonics, especially fan noise  
Matrix analysis of vibration on problems  
Diesel noise and vibration  
Vibration damping  
Psychoacoustics, sonic boom  
Audiology  
Propagation of sound in ducts, compressor noise  
Fan noise, vortex noise  
Acoustic instrumentation  
Controls, wide-band siren  
Turbulence in air jets  
Correlation techniques re jet noise  
Industrial and engine noises  
Damping of aircraft structures  
Audiology

Ian James Sharland  
Peter Leonard Tanner  
P.C. Parks  
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E.J. Fahy  
D. Goodwin  
M. Petyt  
C.G. Rico  
Robert Crawford  
Colin Allen Mercer  
M.J.B. Shelton  
John F. Wilby  
Mrs. Emma Wilby  
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Geort Zimmermann

Automobile noise and vibration  
Boundary layer noise  
  
Ground reflection of sonic bangs

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D.E.L. Shorter  
A.N. Burd  
Dr. M.E.B. Moffat  
Dr. T.J.B. Smith  
H.D. Harwood

Architectural acoustics, electroacoustics  
Studio acoustics  
Electroacoustics, stereophony  
Studio acoustics  
" " ambiophony  
" " "  
Loudspeakers, microphones

TEDDINGTON

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Social acoustics  
Response to aircraft noise  
Impedance of ears, artificial ears  
Bone conduction in hearing  
Sound absorbers, anechoic rooms, reverberation  
Noise measurement and control  
Audiology, industrial noise

Basic Physics Division

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Dr. Bryan E. Read

High polymers at ultrasonic frequencies  
Dynamic elastic propagation of polymers

Aerodynamics Division

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Turbulence  
Vortex flows  
Turbulence, stability  
Boundary layer noise

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Hydrodynamics, flow noise  
Psychoacoustics  
Machinery noise and vibrations  
Noise measurements, flow noise  
Transducers  
Propeller noise  
Sonar, underwater sound  
Transducer construction



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F.J. Langdon  
W.E. Scholes

Building acoustics  
Industrial noises  
Sound propagation, concert hall acoustics  
Traffic noise  
Sound propagation

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Seismology

Department of Agricultural Botany

Andrew G. Gordon

Ultrasonics applications

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Robert E. CraigResponse of fish to sounds  
Fish sonarsDUNDEEQueen's College  
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Elastic waves in inhomogeneous media

Department of Public Health and Social Medicine

Prof. A. Mair

Noise levels and hearing in jute industry

Department of Ear, Nose and Throat DiseasesA.G. Gibb  
J. MowatDeafness in the jute industry  
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Aerosonics

Department of Medical Physics

Dr. D.C. Simpson

Monitoring of patient, including acoustics

Department of Mechanical EngineeringDr. J.D. Robson  
Dr. A.D.S. BarrVibrations and damping  
" " "Department of Inorganic and Physical ChemistryProf. T.L. Cottrell  
Dr. C.T. Greenwood  
Dr. A.W. ReadUltrasonic propagation in gases  
High polymer solutions  
Electron-molecule interactionsDepartment of Physiology

Dr. E.G. Walsh

Vestibular apparatus, effects of vibration  
on man

UNITED KINGDOM - SCOTLAND (Cont'd)EDINBURGH (Cont'd)Edinburgh University (Cont'd)Department of Clinical Surgery

A.N. Smith

Use of ultrasound to produce ulcer

Department of Phonetics

Walter Lawrence

Speech analysis and synthesis

James A. Anthony

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Department of Dental Studies

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Use of sonics and ultrasonics in occlusal  
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Speech development and disorders of child-  
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Sound transmission of lightweight partitions

J.J. Williamson

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Department of Electrical Engineering

Prof. John Lamb

Physical properties of modern materials used  
in electronics and EE

Dr. A.J. Barlow

Ultrasonic propagation in viscoelastic liquids

J.H. Collins

Microwave acoustics in solids

Dr. D.S. Gordon

Noise of electrical machinery

Dr. G. Harrison

Ultrasonic properties of viscoelastic liquids

R. Hutchins

Laboratory studies of semiconductors

R.B. Wilson

Microwave acoustics of solids

Department of Mechanical Engineering

G. Baird

Engineering services for hospitals, including  
effects of noise

W. Carson

" " " " " "

T.W. Maver

" " " " " "

Department of Aeronautics and Fluid Mechanics

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Hydraulic cavitation

Philip H. Tanner

Hydraulic cavitation, ship vibration

David Pirie

" "

UNITED KINGDOM - SCOTLAND (Cont'd)GLASGOW (Cont'd)

## Glasgow University (Cont'd)

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Ship vibrations  
" "

Department of Obstetrics and Gynaecology (Queen Mother's Hospital)

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W. Barr  
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Dr. J. Willocks

Ultrasonic diagnosis applied to tumors  
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" " " " " "  
" " " " " "

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Department of Physical Chemistry

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Viscoelastic behavior of polymers  
" " " "  
Scattering of laser beams by fluids

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D. Firth  
Dr. J.M. Hobbs  
Dr. I.S. Pearsall  
Dr. C. Timms

Machinery noise measurements, gear noise  
Fluid filters  
Ultrasonic cavitation erosion  
Hydraulic cavitation  
Gear noise

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Molecular relaxation  
Ultrasonic studies

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Dr. H.A. Slynor

Hydraulic cavitation  
Plate and turbine-blade vibrations

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Plate and shell vibrations

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Noise of mining machinery

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Acoustic wave guides  
Factory and traffic noises  
Turbine blade vibrations

ALPHABETICAL INDEX

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Security Classification

DOCUMENT CONTROL DATA - R&D		
(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)		
1. ORIGINATING ACTIVITY (Corporate author) Office of Naval Research, Branch Office London, England		2a. REPORT SECURITY CLASSIFICATION Unclassified
		2b. GROUP
3. REPORT TITLE  DIRECTORY OF ACOUSTICIANS IN WESTERN EUROPE		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates) N.A.		
5. AUTHOR(S) (Last name, first name, initial)  TROTT, W. James		
6. REPORT DATE March 1968	7a. TOTAL NO. OF PAGES 71	7b. NO. OF REFS
8a. CONTRACT OR GRANT NO. N.A.	9a. ORIGINATOR'S REPORT NUMBER(S) ONRL D-13	
b. PROJECT NO. N.A.	9b. OTHER REPORT NO(S) (Any other number that may be assigned this report) N.A.	
c. N.A.		
d.		
10. AVAILABILITY/LIMITATION NOTICES  Distribution of this document is unlimited.		
11. SUPPLEMENTARY NOTES N.A.	12. SPONSORING MILITARY ACTIVITY N.A.	
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